

SUBSTITUTE SPECIFICATION

METHOD FOR PACKING AND FILTERING GEOPHYSICAL EVENTS TO RETRIEVE THEREFROM DATA ON THE TYPE OF SUBSOIL

ABSTRACT

The invention relates to a method for packing and filtering geophysical events read on multi-domain records, with distribution of said events into families each having a particular geophysical significance : iso-offset or iso-incidence angle data cubes, elastic parameter cubes derived from a joint stratigraphic inversion and the like, in order to extract therefrom data on the type of subsoil, using a multivariate statistical technique. The method essentially comprises forming, by combination of geophysical variables, synthetic variables much fewer in number, which are obtained by constructing an orthogonal vector base in each of the sets of analysis constituted by the data of each of the families, wherefrom is derived the formation of an orthonormal vector base (new attributes) for filtering and describing said geophysical events. The invention is applicable to geological interpretation or to interpretation of an underground reservoir, from seismic measurements or logs for example.